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Modern data centers are complex distributed environments with application workloads requiring multiple resource like processing (CPU), storage and network. Allocation of these resources to workloads needs to be handled in an integrated manner to adequately ...

Keywords: SAN resource management, integrated allocation**2** [Dynamic Optical Circuit Switching Applied to Storage Area Networks](#)[Aharon J. Agranat, Noam Sapiens, Larry Rudolph](#)

November 2009

OSC '09: Proceedings of the 2nd International Workshop on Optical SuperComputing**Publisher:** Springer-Verlag**Bibliometrics:** Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count:

This paper presents a new weight incidence representation of Dynamic wavelength addressing in optical fiber networks utilizing wavelength division multiplexing (WDM) can form the basis for a high-performance, high-bandwidth, low-latency any-to-any interconnection ...

3 [Optimizing NFS Performance: Tuning and Troubleshooting NFS on HP-UX Systems](#)[Dave Oker](#)

September 2002

Optimizing NFS Performance: Tuning and Troubleshooting NFS on HP-UX Systems

Publisher: Pearson EducationFull text available: [Safari](#) [Online Book](#)**Bibliometrics:** Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count:

From the Book:

Introduction

Network File System (NFS) has been the industry standard protocol for remote file access on the UNIX operating system platform for many years. It is part of the Open Network Computing software family originally developed

4 [Ceph: reliable, scalable, and high-performance distributed storage](#)[Sage A. Weil / Scott A. Brandt](#)

January 2007

Ceph: reliable, scalable, and high-performance distributed storage

Publisher: University of California at Santa Cruz**Bibliometrics:** Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count:

As the size and performance requirements of storage systems have increased, file system designers have looked to new architectures to facilitate system scalability. The emerging object-based storage paradigm diverges from server-based (e. g. ...

5 [File System Benchmarks, Then, Now, and Tomorrow](#)[Thomas M. Ruwart](#)

April 2001

MSS '01: Proceedings of the Eighteenth IEEE Symposium on Mass Storage Systems and Technologies**Publisher:** IEEE Computer SocietyFull text available: [Publisher Site](#)

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count:

With the growing popularity of storage area networks (SANs) and clustered, shared file systems, the file system becoming a distinct and critical part of a system environment. Because the file system mitigates access to data a mass storage subsystem, ...

- 6 [Exterminator: Automatically correcting memory errors with high probability](#)
Gene Novak, Emery D. Berger, Benjamin G. Zorn

December 2008 **Communications of the ACM**, Volume 51 Issue 12

Publisher: ACM [Request Permissions](#)

Full text available: [Digital Edition](#), [Html](#) (869.00 bytes), [Pdf](#) (840.78 KB)

Bibliometrics: Downloads (6 Weeks): 26, Downloads (12 Months): 102, Downloads (Overall): 493, Citation Count:

Programs written in C and C++ are susceptible to memory errors, including buffer overflows and dangling pointers. These errors, which can lead to crashes, erroneous execution, and security vulnerabilities, are notorious to repair. Tracking down ...

- 7 [Workload-based generation of administrator hints for optimizing database storage utilization](#)
Kaushik Dutta, Raju Rangaswami, Sajib Kundu

February 2008 **Transactions on Storage (TOS)**, Volume 3 Issue 4

Publisher: ACM [Request Permissions](#)

Full text available: [Pdf](#) (346.97 KB)

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 65, Downloads (Overall): 508, Citation Count: 0

Database storage management at data centers is a manual, time-consuming, and error-prone task. Such management involves regular movement of database objects across storage nodes in an attempt to balance the I/O bandwidth utilization across disk drives. ...

- 8 [An approach to virtual allocation in storage systems](#)
Sukwoo Kang, A. L. Narasimha Reddy

November 2006 **Transactions on Storage (TOS)**, Volume 2 Issue 4

Publisher: ACM [Request Permissions](#)

Full text available: [Pdf](#) (960.24 KB)

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 83, Downloads (Overall): 949, Citation Count: 0

This article presents *virtual allocation*, a scheme for flexible storage allocation. Virtual allocation separates storage allocation from the file system. It employs an allocate-on-write strategy which lets applications fit into the actual usage ...

Keywords: Storage systems, file systems, storage allocation, storage management

- 9 [Online reorganization of databases](#)
Gary H. Sobkut, Balakrishna R. Iyer

July 2009 **Computing Surveys (CSUR)**, Volume 41 Issue 3

Publisher: ACM [Request Permissions](#)

Full text available: [Pdf](#) (886.15 KB)

Bibliometrics: Downloads (6 Weeks): 98, Downloads (12 Months): 1001, Downloads (Overall): 2721, Citation Count:

In practice, any database management system sometimes needs reorganization, that is, a change in some aspect of the logical and/or physical arrangement of a database. In traditional practice, many types of reorganization have required denying access ...

Keywords: Clustering, concurrent reorganization, indexes, log-structured file systems, maintenance, online reorganization, redefinition, reorganization, restructuring, schema evolution, very large databases

- 10 [An end-to-end approach to globally scalable network storage](#)
Micah Beck, Terry Moore, James S. Plank

August 2002 **SIGCOMM '02: Proceedings of the 2002 conference on Applications, technologies, architectures, and protocols for computer communications**

Publisher: ACM [Request Permissions](#)

Full text available: [Pdf](#) (286.82 KB)

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 58, Downloads (Overall): 1229, Citation Count: 2

This paper discusses the application of end-to-end design principles, which are characteristic of the architecture the Internet, to network storage. While putting storage into the network fabric may seem to contradict end-to-end arguments, we try ...

Keywords: IBP, asynchronous communications, end-to-end design, exNode, internet backplane protocol, logis networking, network storage, scalability, store and forward network, wide area storage

Also published in:

October 2002 **SIGCOMM Computer Communication Review** Volume 32 Issue 4


11 Storage area networking – an introduction and future development trends

D. V. Anidil, S. Nijseerath

October 2002

BT Technology Journal , Volume 20 Issue 4

Publisher: Kluwer Academic Publishers

Full text available:  [Publisher Site](#)

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count:

This paper presents a detailed overview of the current and future networking options within the storage arena. Particular emphasis is placed on exploring strategic storage solutions, which are based on metropolitan area network (MAN) deployments, with ...


12 Proceedings of the Second International Workshop on Persistence and Java

Malcolm Atkinson, Mick Jordan

December 1997

Proceedings of the Second International Workshop on Persistence and Java

Publisher: Sun Microsystems, Inc.

Full text available:  [Pdf](#) (1.23 MB)

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 0, Downloads (Overall): 244, Citation Count: 2

These proceedings record the Second International Workshop on Persistence and Java, that was held in Half Mc Bay in the San Francisco Bay Area, in August 1997. The focus of the workshop series is the relationship between the Java platform and longterm ...

13 A practical learning-based approach for dynamic storage bandwidth allocation

Vijay Sundaram, Prashant Shenoy

June 2003


IWQoS'03: Proceedings of the 11th international conference on Quality of service

Publisher: Springer-Verlag

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count:

In this paper, we address the problem of dynamic allocation of storage bandwidth to application classes so as to meet their response time requirements. We present an approach based on reinforcement learning to address this problem. We argue that a simple ...


14 The Conquest file system: Better performance through a disk/persistent-RAM hybrid design

 Anil Andy Wang, Geoff Kuening, Peter Reiher, Gerald Popek

August 2006

Transactions on Storage (TOS) , Volume 2 Issue 3

Publisher: ACM  [Request Permissions](#)


Full text available:  [Pdf](#) (1.34 MB)

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 90, Downloads (Overall): 1035, Citation Count:

Modern file systems assume the use of disk, a system-wide performance bottleneck for over a decade. Current disk caching and RAM file systems either impose high overhead to access memory content or fail to provide mechanisms to achieve data persistence ...

Keywords: Persistent RAM, file systems, performance measurement, storage management


15 Virtual machine file system

 Satyam B. Vaghani

December 2010

SI GOPS Operating Systems Review , Volume 44 Issue 4

Publisher: ACM

Full text available:  [Pdf](#) (810.32 KB)

Bibliometrics: Downloads (6 Weeks): 36, Downloads (12 Months): 219, Downloads (Overall): 219, Citation Count:

The Virtual Machine File System (VMFS) is a scalable and high performance symmetric clustered file system for hosting virtual machines (VMs) on shared block storage. It implements a clustered locking protocol exclusively using storage links, and does ...

Keywords: SAN, clustered file system, scalability, storage hardware acceleration, storage virtualization, virtual machine

16 GMBlock: Optimizing data movement in a block-level storage sharing system over Myrinet

Evangelos Koutis, Anastassios Nanas, Nectarios Koziris

December 2010

Cluster Computing, Volume 13 Issue 4

Publisher: Kluwer Academic Publishers

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count:

We present gmblock, a block-level storage sharing system over Myrinet which uses an optimized I/O path to transfer data directly between the storage medium and the network, bypassing the host CPU and main memory bus of the storage server. It is device ...

Keywords: Block-level storage, Memory contention, Myrinet, Network block device, OCFS2, SMP clusters, Shared storage, User level networking

17 Data center evolution

Krishna Kant

December 2009

Computer Networks: The International Journal of Computer and Telecommunications Networking, Volume 53 Issue 17


Publisher: Elsevier North-Holland, Inc.

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count:

Data centers form a key part of the infrastructure upon which a variety of information technology services are built. As data centers continue to grow in size and complexity, it is desirable to understand aspects of their design that are worthy of carrying ...

Keywords: Data center, Ethernet, InfiniBand, Power management, Solid state storage, Virtualization

18 DHIS: discriminating hierarchical storage

 Chaitanya Yalamanchili, Kiron Vijayasankar, Erez Zadok, Gopalan Sivathanu

May 2009

SYSTOR '09: Proceedings of SYSTOR 2009: The Israeli Experimental Systems Conference

Publisher: ACM  [Request Permissions](#)


Full text available:  [PDF](#) (208.96 KB)

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 21, Downloads (Overall): 82, Citation Count: 0

A typical storage hierarchy comprises of components with varying performance and cost characteristics, providing multiple options for data placement. We propose and evaluate a hierarchical storage system, DHIS, that uses application-level hints to discriminate ...


Keywords: file systems, intelligent disks, storage stack, storage systems

19 An evaluation of multi-resolution storage for sensor networks

 Deepak Ganesan, Ben Greenstein, Denis Fedyushkin, Deborah Estrin, John Heidemann

November 2003 **SenSys '03: Proceedings of the 1st international conference on Embedded networked sensor systems**

Publisher: ACM  [Request Permissions](#)

Full text available:  [PDF](#) (299.34 KB)

Bibliometrics: Downloads (6 Weeks): 11, Downloads (12 Months): 54, Downloads (Overall): 1506, Citation Count:

Wireless sensor networks enable dense sensing of the environment, offering unprecedented opportunities for observing the physical world. Centralized data collection and analysis adversely impact sensor node lifetime. Previous sensor network research ...

20 Custom memory allocation for tree

Alin Jula, Lawrence Rauchwerger

November 2006 **LCPC'06: Proceedings of the 19th international conference on Languages and compilers for parallel computing**

Publisher: Springer-Verlag

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count:

We present a novel and efficient container-centric memory allocator, named Defero, which allows a container to guide the allocation of its elements. The guidance is supported by the semantic-rich context of containers in which a new element is inserted. ...

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